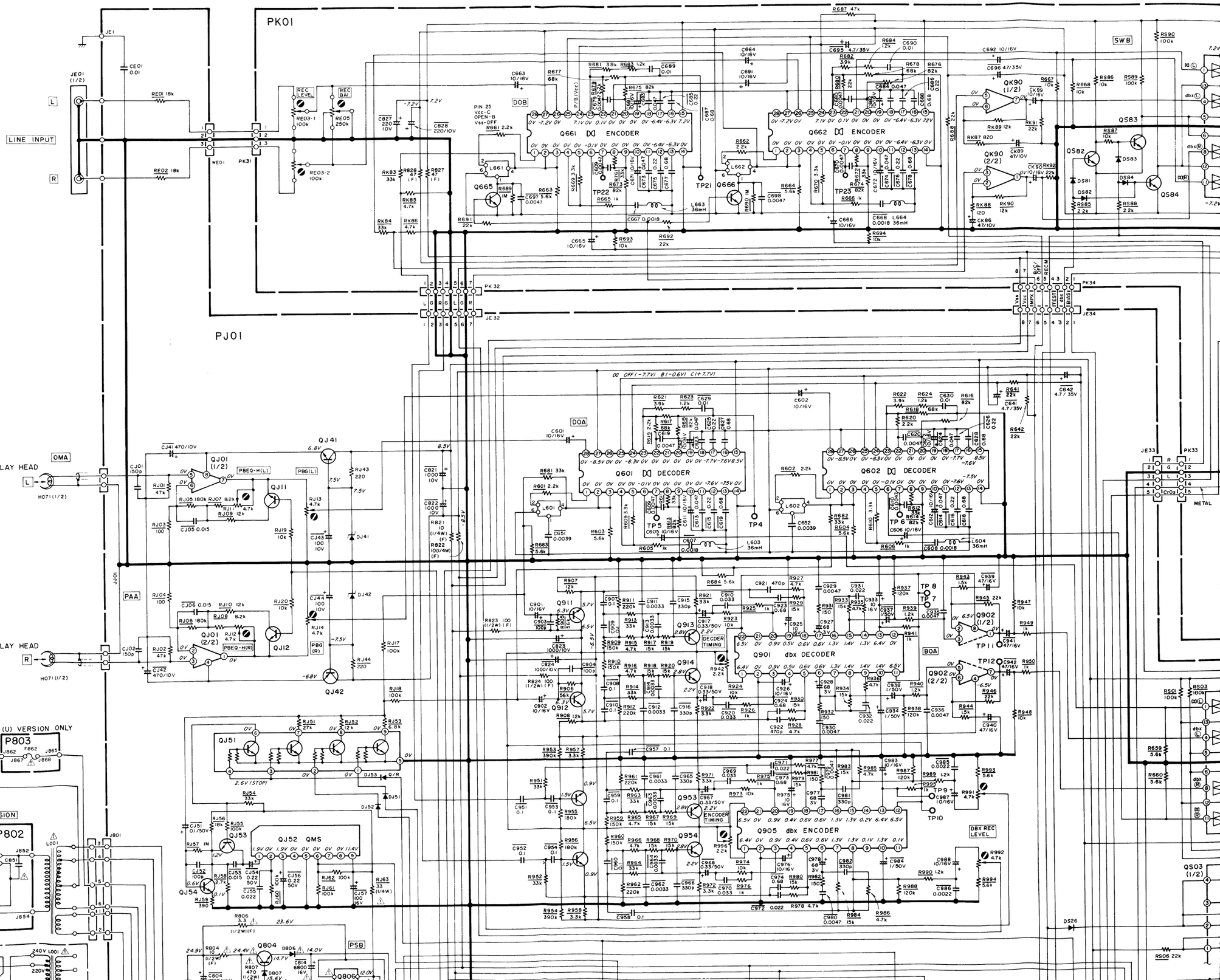
MARANTZ SD64

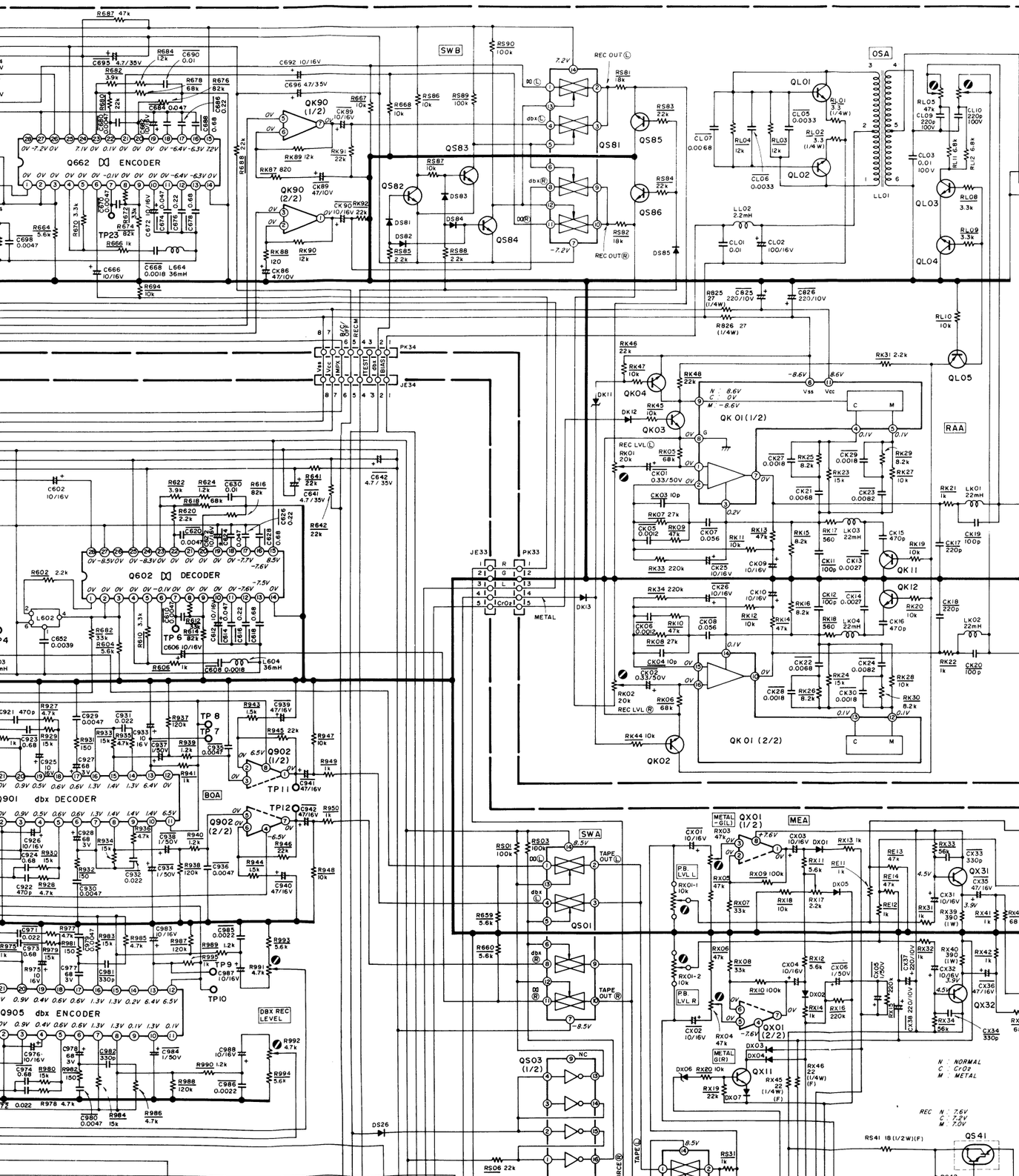
MODEL

SERVICE MANUAL

marantz


PK01
JE1
JE01 (1/2)
CE01 0.01
LINE INPUT
L
R
RE01 18k
RE02 18k
REC LEVEL
REC BAL
RE03-1 100k
RE05 250k
RE03-2 100k
W001
PK31
C827 220 10V
C828 220/10V
-7.2V
7.2V
PIN 25 Vcc-C OPEN-B Vss-OFF
DOB
P/B(Vcc)
Q661 ENCODER
Q662 ENCODER
TP22
TP23
TP21
Q665
Q666
L661
L662
R661 2.2k
R662 2.2k
R663 5.6k
R664 5.6k
R665 1k
R666 1k
R669 3.3k
R670 3.3k
R673 33k
R674 33k
R687 47k
R688 22k
R689 1M
R690 1M
R691 22k
R692 22k
R693 10k
R694 10k
C663 10/16V
C664 10/16V
C665 10/16V
C666 10/16V
C667 0.0018
C668 L664 0.0018 36mH
C691 10/16V
C692 10/16V
C695 4.7/35V
C696 47/35V
C697 5.6k 0.0047
C698 0.0047
L663 36mH
QK90 (1/2)
QK90 (2/2)
CK89 10/16V
CK90 10/16V
CK86 47/10V
RK87 820
RK88 120
RK89 12k
RK90 12k
RK91 22k
RK92 22k
SW8
RS86 10k
RS87 10k
RS88 2.2k
RS89 100k
RS90 100k
QS82
QS83
QS84
DS81
DS82
DS83
DS84
RS85 2.2k
PK32
JE32
PJ01
PK34
JE34
JE33
PK33
METAL
DO OFF(-7.7V) B(-0.6V) C(+7.7V)
DOA
Q601 DECODER
Q602 DECODER
TP4
TP5
TP6
L601
L602
L603 36mH
L604 36mH
C601 10/16V
C602 10/16V
C605 10/16V
C606 10/16V
C607 0.0018
C608 0.0018
C642 4.7/35V
R641 22k
R642 22k
OMA
REC/PLAY HEAD
L
H071 (1/2)
CJ01 150p
RJ01 47k
RJ03 100
RJ05 180k
RJ07 8.2k
RJ09 12k
QJ01 (1/2)
PBEQ-H(L)
QJ11
PBG(L)
QJ41
6.8V
RJ43 220
RJ13 4.7k
RJ19 10k
CJ43 100 10V
DJ41
CJ41 470/10V
PAA
RJ04 100
RJ06 180k
RJ08 8.2k
RJ10 12k
RJ12 4.7k
QJ01 (2/2)
PBEQ-H(R)
QJ12
RJ20 10k
RJ14 4.7k
CJ44 100 10V
DJ42
PBG (R)
QJ42
-6.8V
RJ44 220
RJ17 100k
RJ18 100k
CJ02 150p
RJ02 47k
CJ42 470/10V
R
H071 (1/2)
8.5V
-7.5V
7.5V
C821 1000 10V
C822 1000 10V
R821 10 (1/4W) (F)
R822 101(1/4W) (F)
JJ01
(U) VERSION ONLY
P803
F862
J862
J865
J867
J868
F.U VERSION
P802
AC POWER
J852
C851
S851
J851
J853
J854
W001
L001
JJ01
N.T VERSION
J011
240V
220V
L001
QJ51
RJ51 27k
RJ52 12k
RJ53 6.8k
DJ53
DJ52
DJ51
Q/R
2.6V (STOP)
RJ54 33k
QJ53
QJ52 QMS
QJ54
RJ56 18k
RJ55 100k
RJ57 1M
RJ58 2.7k
RJ59 390
RJ62 100k
RJ61 100k
RJ63 33 (1/4W)
CJ51 0.1/50V
CJ52 100p
CJ53 0.015
CJ54 0.22 50V
CJ55 0.022
CJ56 0.22 50V
CJ57 100 16V
RJ60
R806 3.3 (1/2W)(F)
23.6V
PSB
Q804
Q806
D806
D807
R804 10 (1/2W) (F)
R807 470 (1/2W)
C814 6800 16V
C804
24.9V
24.4V
14.7V
14.0V
12.0V
Q901 dbx DECODER
Q902 (1/2)
Q902 (2/2)
TP11
TP12
BOA
Q911
Q912
Q913
Q914
DECODER TIMING
Q953
Q954
ENCODER TIMING
Q905 dbx ENCODER
TP8
TP7
TP9
TP10
DBX REC LEVEL
R907 12k
R909 150k
R910 150k
R911 220k
R912 220k
R913 33k
R914 33k
R915 4.7k
R916 4.7k
R917 15k
R918 15k
R919 15k
R920 15k
R921 33k
R922 3.3k
R923 10k
R924 100 (1/2W) (F)
R925 1k
R926 1k
R927 4.7k
R928 4.7k
R929 15k
R930 15k
R931 150
R932 150
R933 15k
R934 15k
R935 4.7k
R936 4.7k
R937 120k
R938 120k
R939 1.2k
R940 1.2k
R941 1k
R942 2.2k
R943 1.5k
R944 1.5k
R945 22k
R946 22k
R947 10k
R948 10k
R949 1k
R950 1k
C901 10/16V
C902 10/16V
C903 1000
C904 1000
C905 0.1
C906 0.1
C907 0.1
C908 0.1
C909 0.0033
C910 0.033
C911 0.0033
C912 0.0033
C913 0.0033
C914 0.0033
C915 330p
C916 330p
C917 0.33/50V
C918 0.33/50V
C920 0.033
C921 470p
C922 470p
C923 0.68
C924 0.68
C925 10 16V
C926 10/16V
C927 68 3V
C928 3V
C929 0.0047
C930 0.0047
C931 0.022
C932 0.022
C933 10 16V
C934 1/50V
C935 0.0047
C936 0.0047
C937 1/50V
C938 1/50V
C939 47/16V
C940 47/16V
C941 47/16V
C942 47/16V
C943 47/16V
C944 47/16V
R951 33k
R952 33k
R953 390k
R954 390k
R955 180k
R956 180k
R957 3.3k
R958 3.3k
R959 150k
R960 150k
R961 220k
R962 220k
R963 33k
R964 33k
R965 4.7k
R966 4.7k
R967 15k
R968 15k
R969 15k
R970 15k
R971 3.3k
R972 3.3k
R973 10k
R974 10k
R975 1k
R976 1k
R977 147k
R978 4.7k
R979 15k
R980 15k
R981 150
R982 150
R983 15k
R984 15k
R985 4.7k
R986 4.7k
R987 120k
R988 120k
R989 1.2k
R990 1.2k
R991 4.7k
R992 4.7k
R993 5.6k
R994 5.6k
R995 1k
C951 0.1
C952 0.1
C953 0.1
C954 0.1
C957 0.1
C958 0.1
C959 0.1
C960 0.0033
C961 0.0033
C962 0.0033
C963 0.0033
C965 330p
C966 330p
C967 0.33/50V
C968 0.33/50V
C969 0.033
C970 0.033
C971 0.022
C972 0.022
C973 0.68
C974 0.68
C975 10 16V
C976 10/16V
C977 68 3V
C978 68 3V
C980 0.0047
C981 330p
C982 330p
C983 10/16V
C984 1/50V
C985 0.0022
C986 0.0022
C987 10/16V
C988 10/16V
DS26
RS01 100k
RS02 22k
RS03 100k
RS06 22k
R659 5.6k
R660 5.6k
DO
dbx(L)
dbx(R)
QS03 (1/2)
CrO2

SCHEMATIC DIAGRAM FOR Model SD-74



Q601, Q602, Q661, Q662
HC10003490
TEA0665

QJ01
HC10017090
NJM2043DD

QJ51
HC10095050
TD62554S

QJ52
HC10044210
BA335

Q901, Q905
HC10039020
AN6291

Q902
HC10021090
NJM4560DD

QS01, QS02, QS81
HC406600B0
4066B

QS03
HC10052050
TD62504P

QX01, QK90
HC10003090
NJM4558D

QK01
HC10064020
AN6208N

Q806
HC38512090
NJM78M12A

Q801
HC38509090
NJM78M09A

Q802
HC39509090
NJM79M09A

Q805
HT1118420
2SA1184(Q,Y)

Q665, Q666, QX11
QJ11, QJ12, QJ53
QJ54, QL03, QL04
QS42, QS51, QJ41
HT3174021
2SC1740S(R,S)

Q911, Q912, Q913
Q914, Q951, Q952
Q953, Q954, QS23
QS24, QS82, QS83
QS84, QS85, QS86
QK02, QK03, QK04
QK11, QK12, QK43
QX31, QX32
HT3174026
2SC1740S(S,E)

QS53, QL05, QJ42
HT1093324
2SA933S(Q,R)

QL01, QL02
HT3174128
2SC1741(Q,R)

Q803
HC38506090
NJM78M06A

QS41
HT4089400
2SD894

QS52
HT3263424
2SC2634(R,S)

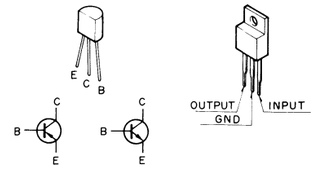
DX06, D810
HD3001302
MA1180(H)

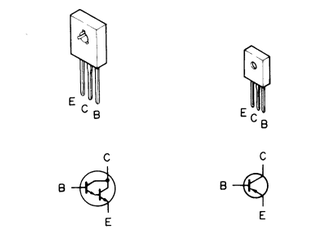
DS52, D832
HD3000302
MA1047(M)

DS41
HD3000802
MA1100(M)

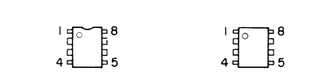
DK11
HD3004306
RD7.5E B3

DS91
HD3004206
RD8.2E B2





TOP VIEW

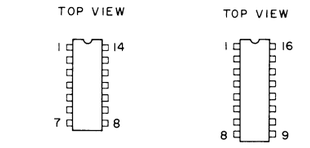


NJM2043DD

TOP VIEW

NJM4558D
NJM4560DD

TOP VIEW

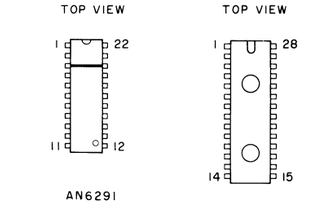


LC4066B

TOP VIEW

AN6208N
TD62504P

TOP VIEW

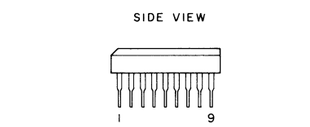


AN6291

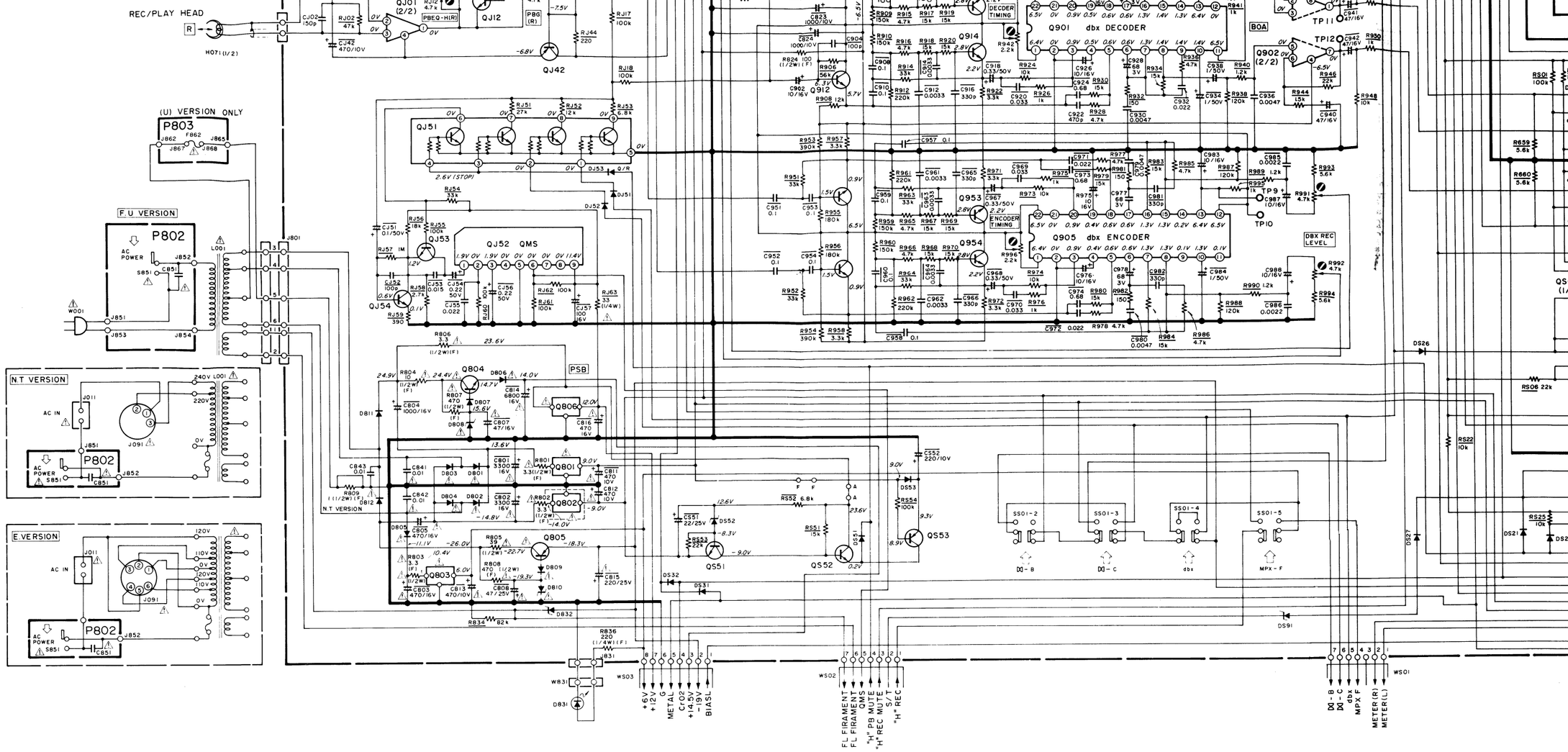
TOP VIEW

TEA0665

SIDE VIEW



BA335



R942	RA02220600	TRIMMING 2.2 KΩ
R991	RA04720600	TRIMMING 4.7 KΩ (L) DBX REC
R992	RA04720600	TRIMMING 4.7 KΩ (R) DBX REC
R996	RA02220600	TRIMMING 2.2 KΩ
L601	LS10440060	M. P. X. COIL 19 KHz
L602	LS10440060	M. P. X. COIL 19 KHz
L603	LC23660700	CHOKE COIL 36 mH
L604	LC23660700	CHOKE COIL 36 mH
L661	LS10440060	M. P. X. COIL 19 KHz
L662	LS10440060	M. P. X. COIL 19 KHz
L663	LC23660700	CHOKE COIL 36 mH
L664	LC23660700	CHOKE COIL 36 mH
SC01		
≀	SP01010930	PUSH SWITCH TACT
SC03		
SU01	SS02030190	SLID SWITCH TIMER REC/PLAY
XU01	FQ08003020	CERAMIC VIB CSB800K
RV01	HQ30402060	DISPLAY UNIT FIP72AW19Y
SU51		
≀	SP01010930	PUSH SWITCH TACT
SU64		

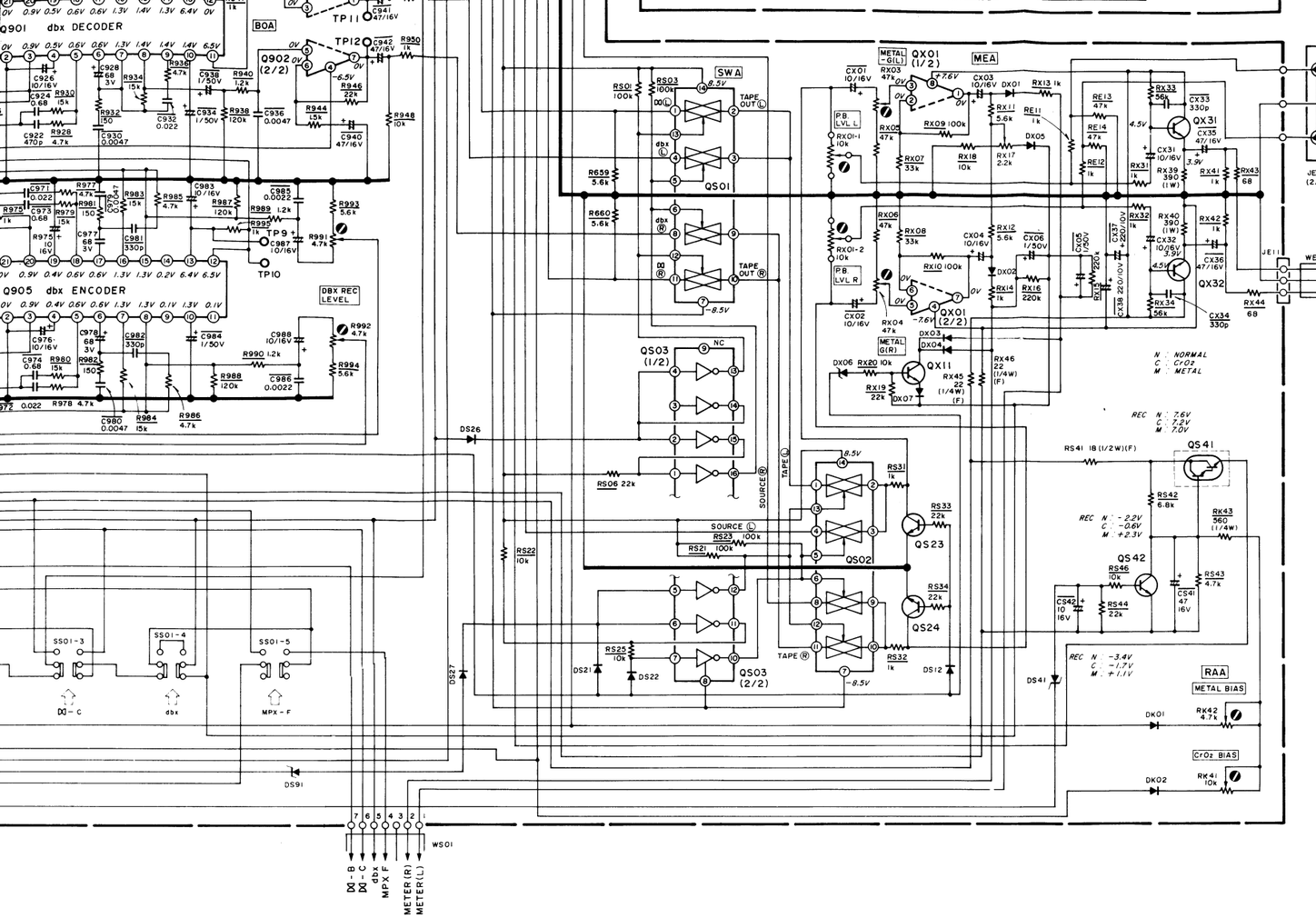
SU65	SP01010840	PUSH SWITCH TACT
SU66	SP01010840	PUSH SWITCH TACT
RX01	RM01030260	VARIABLE OUTPUT LEVEL
RX03	RA04730600	TRIMMING 47 KΩ
RX04	RA04730600	TRIMMING 47 KΩ
RX17	RA02220600	TRIMMING 2.2 KΩ
RM04	RA02220600	TRIMMING 2.2 KΩ
LL01	TC10150060	OSC TRANSF.
LL02	LC22250610	CHOCK COIL 2.2 mH
RL05	RA04730090	TRIMMING 47 KΩ
RL06	RA04730090	TRIMMING 47 KΩ
RJ11		
≀	RA04720600	TRIMMING 4.7 KΩ
RJ14		
J011	YP04000580	PLUG AC INLET [A, E, N]
J091	BY05030040	VOLTAGE SELECTOR [A, N]
J091	BY05080050	VOLTAGE SELECTOR [E]
L001	TS15715140	POWER TRANSF. [A, N]
L001	TS15716100	POWER TRANSF. [E]
L001	TS15715120	POWER TRANSF. [F]

W001	YC01800190	A.C. POWER CORD
W001	YC02000380	A.C. POWER CORD
F862	FS10100500	FUSE 1 A
RQ14	RA04720600	TRIMMING 4.7 KΩ
RQ17	RA04720600	TRIMMING 4.7 KΩ
LK01		
≀	LC22260610	CHOKE COIL 22 mH
LK04		
RK01	RA02030140	TRIMMING 20 KΩ
RK02	RA02030140	TRIMMING 20 KΩ
RK41	RA01030630	TRIMMING 10 KΩ
RK42	RA04720600	TRIMMING 4.7 KΩ
JT01	YT02020390	TERMINAL REMOTE IN
JT02	YT02020400	TERMINAL EASY OUT
ST01	SS02020700	SLID SWITCH REMOTE 1/2
SS01	SP02050150	PUSH SWITCH
JE01	YT02040470	TERMINAL LINE IN/OUT [A, E, F, N]
JE01	YT02040480	TERMINAL LINE IN/OUT [U]
JE02	YJ01001790	JACK HEADPHONE (GRAY)
JE02	YJ01002080	JACK HEADPHONE (BLACK)
RE03	RM01040880	VARIABLE 100 KΩ REC VOLUME
RE05	RK02540060	VARIABLE 250 KΩ REC BALANCE
W001	ZC02006020	A.C. POWER CORD [A]
W001	ZC01805010	A.C. POWER CORD [E, N]

H071	LH82162020	REC/PLAY HEAD
H072	LH31000650	ERASE HEAD (L)
H073	LH31000650	ERASE HEAD (R)
M071	MM11200260	D.C. MOTOR MAIN
M072	MM00900050	D.C. MOTOR F/R
M073	MM00900050	D.C. MOTOR ASSIST
S071		
≀	SM01011200	MINI SWITCH
S075		
S076	SM01020460	MINI SWITCH
020N	326Y002400	ARM PINCHROLLER
050N	325Y117500	SPINDLE REEL
086N	326Y273010	FLYWHEEL (NOR)
087N	326Y273020	FLYWHEEL (REV)
110N	313Y002520	ARM F/R
122N	313Y262040	PULLEY F/R
837N	316Y262010	PULLEY MOTOR MAIN
840N	323Y264010	BELT MAIN

NOTE ON SAFETY :
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

Components and wiring are subject to change for modification without notice.



H071	LH82162020	REC/PLAY HEAD
H072	LH31000650	ERASE HEAD (L)
H073	LH31000650	ERASE HEAD (R)
M071	MM11200260	D.C. MOTOR MAIN
M072	MM00900050	D.C. MOTOR F/R
M073	MM00900050	D.C. MOTOR ASSIST
S071		
≀	SM01011200	MINI SWITCH
S075		
S076	SM01020460	MINI SWITCH
020N	326Y002400	ARM PINCHROLLER
050N	325Y117500	SPINDLE REEL
086N	326Y273010	FLYWHEEL (NOR)
087N	326Y273020	FLYWHEEL (REV)
110N	313Y002520	ARM F/R
122N	313Y262040	PULLEY F/R
837N	316Y262010	PULLEY MOTOR MAIN
840N	323Y264010	BELT MAIN

Components and wiring are subject to change for modification without notice.

LC4066B

2SC1741 (Q,R)

Q803
HC38506090
NJM78M06A

QS41
HT40894000
2SD894

QS52
HT326342A1
2SC2634 (R,S)

DX06, D810
HD30013021
MA1180 (H)

DS52, D832
HD30003021
MA1047 (M)

DS41
HD30008020
MA1100 (M)

DK11
HD30043061
RD7.5E B3

DS91
HD30042061
RD8.2E B2

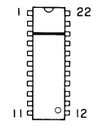
DX01 ~ DX05, DX07, D809
DK01, DK02, DK12, DK13
DS01 ~ DS04, DS12, DS21 ~ DS24
DS31, DS32, DS51, DS53
DS81 ~ DS85
HD20015211
1SS133

D801 ~ D806, D811, D812
HD20016211
ISR35 - 200A

D808
HD30012021
MA1150 (M)

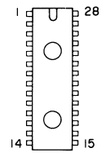
AN6208N
TD62504P

TOP VIEW



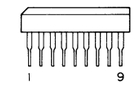
AN6291

TOP VIEW



TEA0665

SIDE VIEW



BA335
TD62554S

"SERVICE INFORMATION IS FOR USE BY QUALIFIED RERSONNEL ONLY – ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY REPAIR BY ANY MARANTZ SERVICE CENTRE –"

Kind of Common Parts

RESISTOR

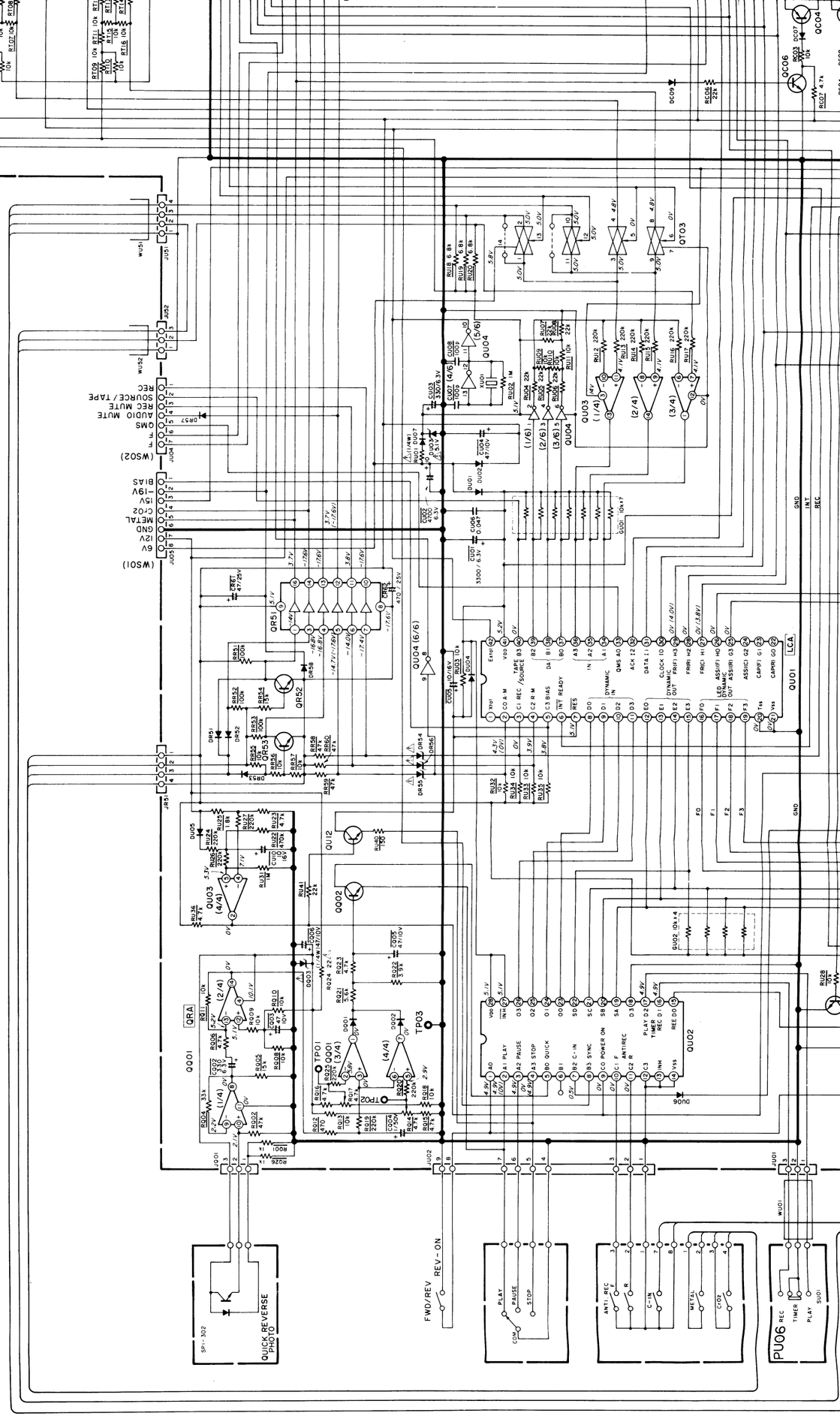
R*** (1) GD05 - - - 140, Carbon film fixed resistor, ±5% 1/4W
R*** (2) GD05 - - - 160, Carbon film fixed resistor, ±5% 1/6W

C*** : **CERAMIC CAP.**
(1) DD1 - - - - 370, Ceramic condenser, disc type (titan condenser) Temp. coeff. P350 ~ N1000 50V

C*** : **CERAMIC CAP.**
(1) DK16 - - - 300, High dielectric constant ceramic condenser, disc type (titan variable) Temp. chara. 2B4 50V

C*** : **ELECTROLY CAP. (⏚) / FILM CAP. (⇌)**
(1) EA - - - - - - 10, Electrolytic condenser, one-way lead type, tolerance ±20%
(2) DF15 - - - 350, Plastic film condenser, one-way type, Mylar, ±5% 50V

* In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"


(WSO1)
6V
12V
GND
METAL
C-O2
15V
-19V
BIAS
(WSO2)
OMS
AUDIO MUTE
REC MUTE
SOURCE/TAPE
REC
QUICK REVERSE PHOTO
FWD/REV
REV-ON
PLAY
PAUSE
STOP
COM
ANTI-REC
C-IN
METAL
C-O2
PU06
REC
TIMER
PLAY
GND
INT
REC
QU01
LCA
QU02
QU03
QU04
QU05
QU12
QR1
QR2
QR3
QR4
QR5
QRA
QTO3
TP01
TP02
TP03
QC04
QC06

QU01
HC10159030
LM6402H-491

QU02
HC10161030
LC7800

QU03
HC10010320
IR2339

QU04, QT02
HC40690580
TC4069

QM01
HC10156030
LB1649

QQ01
HC10135030
LA6324

QR01
HC10063020
AN6870N

QR02
HC10051210
BA222

QR51
HC10131030
LB1292

QT01
HC10158030
LM6416E-490

QT03
HC40660080
HD14066BP

QC01
HC10157030
LC65028-685

QC02
HC40100080
HD14001BP

QC03
HC40130080
HD14013BC

QU11~QU13
QR52, QR53, QR55
QM02, QT04, QT05
Q002, QC06, QC07
HT314402F1
2SC1740S(R,S)

QU81~QU83
QC04, QC05
HT09332D1
2SA933S(R,S)

RV01
HQ30402060
F.1P72AW19Y

DU03
HD30021060
RD5.1EB2

DR54~DR56
HD30020061

2SA933S(R,S)

2SC1740S(R,S)

SIDE VIEW
BA222

TOP VIEW
HD14013BC
HD14066BP
HD14001BP

TOP VIEW
TC4069
LA6324

TOP VIEW
LB1292

TOP VIEW
IR2339

TOP VIEW

PU05

(WS01)
(WS02)
(WS03)

REA
LMA
ECA
LCA

REVERCE MODE
MEMORY LAP REMAN OMS

FWD/REV
REV-ON
PLAY
PAUSE
STOP
COM
ANTI REC
R
C-IN
METAL
CrO2
PU06 REC
TIMER
PLAY
SU01
WU01
JU02
JU01
TP03
QU02
QU01 LCA
QU04 (6/6)
QU04 (1/6) (2/6) (3/6)
QU03 (1/4) (2/4) (3/4)
QT03
QU10
QU11
QU81
QU82
QU83
QU84
QU85
QU86
JU81
JU82
JU83
WU83
PU01
PU03
GUO1 10k x7
GUO2 10k x4
GND
INT
REC
12V
FO
F1
F2
F3
DMO2
QMO1
QM02
MOA
RMO3 33k
RMO1 1k
RMO4 2.2k
RMO2 10k
CMO3 0.01
CMO4 0.01
CMO6 0.047
CMO2 10/16V
DMO1 5.6V
JMO1
CAP STAN
ASSIST
F/R
QC01
QC02
QC03
QC04
QC05
QC06
QC07
GUO3 10k x4
GCO2 22k x4
ECA
LMA
QR01
QR02
LSA
LDA
PU02(1/2)
PU03
PU02(2/2)
REEL PHOTO
GP-2L02
JC01
JC02
WC02
TAPE TYPE
DISPLAY MODE
RESET
SC01
SC02
SC03
DU01 REC
DU02 REC MUTE
DU03 PAUSE
DU04 B. SKIP
DU05 F. PLAY
DU06 R. PLAY
DU07 ◁◁
DU08 ▷▷
DU09 SYNC REC
DU90 SOURCE
DU91 TAPE
REVERSE MODE
SOURCE / TAPE
QUO1 LCA

QT03
HC4066008O
HD14066BP

QC01
HC001157030
LC65028-685

QC02
HC4001008O
HD14001BP

QC03
HC4013008O
HD14013BC

QU10, QU11,
QR52, QR53, QR55
QM02, QT04, QT05
QQ02, QC06, QC07
HT31402F1
2SC1740S(R,S)

QU81~QU83
QC04, QC05
HT109332D1
2SA933S(R,S)

RV01
HQ304002060
F1P72AW19Y

DU03
HD30021060
RD5.1EB2

DR54~DR56
HD30020061
RD20EB2

DM01
HD30015060
RD5.6EB2

DQ03
HD30061060
RD10EB2

DU01, DU02
HD2001821
ISR35-200

DU04~DU06, DU07
DC01~DC09
DR51~DR53, DR57~DR59
DQ01, DQ02
HD2001521
ISS133

DU81, DU82, DU89
HI100370308
SLP-98IC-50

DU84~DU88
HI100380308
SLP-28IF-50

DU83
HI100460308
SLP-48IC-50

HD14013BC
HD14066BP
HD14001BP

TOP VIEW

LB1292

TOP VIEW

LB1649

TOP VIEW

TOP VIEW

LM6402H-491
LC6502B-685

TOP VIEW

TC4069
LA6324

TOP VIEW

IR2339

TOP VIEW

LM6416E-490
LC7800

TOP VIEW

AN6870N

QR01
QR02
QC01
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QC05
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QM02
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QU1000

PU02(2/2)
REEL PHOTO
TAPE TYPE
DISPLAY MODE
RESET
JC01
JC02
JM01
WC02
GP-2L02
SC01
SC02
SC03